

APPARATUS FOR FORMING FILM IN SEMICONDUCTOR
PROCESS AND METHOD FOR FEEDING GAS INTO THE SAME
APPARATUS

ABSTRACT OF THE DISCLOSURE

5 An apparatus for forming a film on a wafer in the semiconductor process is provided. The apparatus includes an inner part containing a
susceptor for mounting thereon the wafer, and an outer part covering the
inner part. There are an inlet and an outlet between the inner part and the
outer part and gases can flow in and out through them. A special gas-
10 feeding pipe is partially mounted inside the inlet. The gases are ejected
from the gas-feeding pipe and toward the outer part instead of the inner
part. Hence, the temperature difference between the gases and the inner
part is diminished and the film adhered to the inner part will not peel to
form particles. It reduces the contamination problem. A gas-feeding
15 method is also provided according to the present apparatus. The method
includes steps: (a) feeding the gases through the gas-feeding pipe so that
the gases are ejected toward the outer part instead of the inner part, and (b)
leading the gases into the inner part along a path between the outer part
and the inner part. It reduces the contamination problem because the low-
20 temperature gases will not approach the inner part before they approach
the outer part.